



Acoustic Louvers Performance Data

MODEL ACL-163

Acoustic Performance Ratings

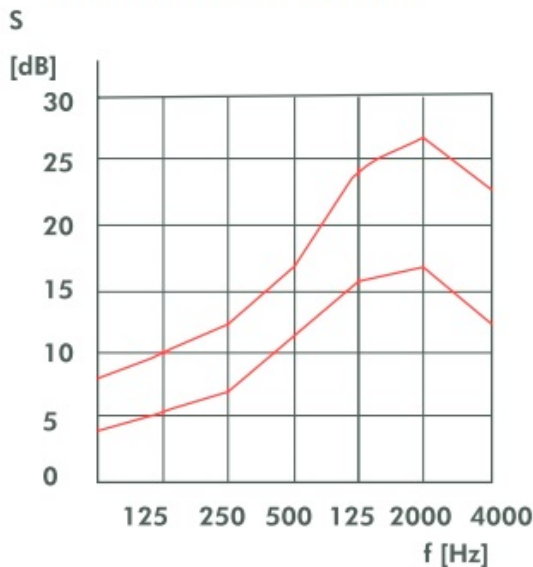
	Measured at Octave Band Center Frequencies					
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Free-Field Noise Reduction (dB)	11	13	16	21	18	14
Transmission Loss (dB)	5	7	10	15	12	8

Performance Notes:

1. Test data obtained in accordance with ASTM E90 test standard for Transmission Loss.
 3. Sound Transmission Class (STC) = 12, obtained in accordance with ASTM E413.

2. Free Field Noise Reduction = Transmission Loss + 6 dB

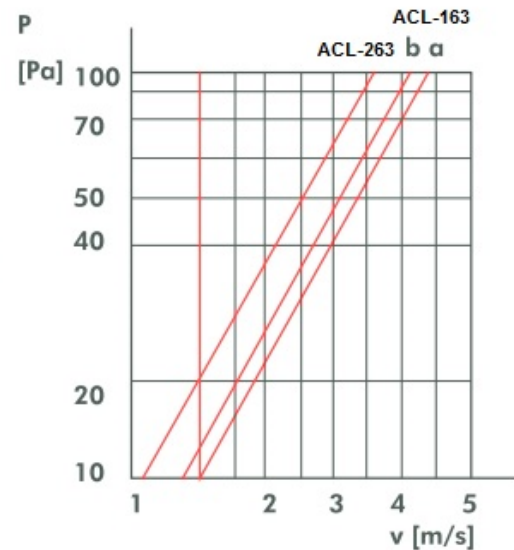
Noise Level Diagram



$$v \text{ [m/s]} = \frac{V \text{ [m}^3\text{/h]}}{3600 A \text{ [m}^2\text{]}}$$

$$A = W * (H - 0,29)$$

Pressure Loss Diagram



ACL-163: One side acoustic external louvre a : exhaust air
 ACL-263: Two side acoustic external louvre b : Fresh air

ACL-163/263 STANDARD SELECTION TABLE

W*H mm	Efective area m ²	Air volume m ³ /h
500*500	0,125	1350
800*500	0,2	2160
900*500	0,225	2430
1000*500	0,25	2700
1200*600	0,36	3888

* Air volume for 3m/s air velocity.

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